Areski **Himeur**

PhD in Computer Science — Artificial Intelligence · Fixed-term Lecturer and Researcher

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Education

PhD Student - Constraint Acquisition — LIRMM, University of Montpellier, France

Reducing Dependency on Prior Knowledge in Constraint Acquisition — 2021 - 2025.

Supervised by Christian Bessiere and Clément Carbonnel — Defended on December 3, 2025.

We propose novel passive constraint acquisition methods that operate without any prior knowledge and with a minimum of examples, while producing models that tend to be interpretable and to generalize well to unseen data.

Master's Degree — University of Montpellier, France

Theoretical Computer Science — 2019 - 2021

Algorithm design, artificial intelligence, optimisation, graph theory, computability, complexity, randomized algorithm, logic, …

Engineering and Research Education

FIGURE Network Program Master Course of Engineering [CMI] — 2016 - 2021

A program integrating bachelor's and master's studies with a 20% increase in course hours compared to standard degrees.

Bachelor's Degree — University of Montpellier, France

Computer Science — 2016 - 2019

Mathematics applied to computer science, different programming prisms, numerous languages and techniques.

International Mobility: September to December 2018 at the University of Helsinki, Finland.

Experience

Fixed-term Lecturer and Researcher — University of Montpellier

"Enseignant-Chercheur Contractuel" — Sept 2025 - Present

- Teaching at the Department of Telecommunications, Services and Uses
- Research at the Chroma team (INSA Lyon and INRIA)

Fixed-term Lecturer and Researcher (ATER) — University of Montpellier

ATER at the Faculty of Sciences and LIRMM — Sept 2024 - August 2025

Research Internship — LIRMM, University of Montpellier

Constraint Programming and Neural Network — February - June 2021

Supervised by Christian Bessiere, Clément Carbonnel and Nadjib Lazaar.

Research on machine learning at the intersection of neural networks and constraint programming.

Research Internship — LIRMM, University of Montpellier

Multi-Agent Argumentation Graphs — June 2020

Supervised by Madalina Croitoru.

Research on multi-agent weighted bipolar argumentation frameworks.

Internship - Fullstack Developer — Hawk Platform

Real-Time Auction Platform Monitoring Tool — May - August 2019

- Development of a Golang API and a React UI.
- Continuous integration and deployment with tests: Gitlab CI and Docker.

Publications

Learning Compact Representations of Constraint Networks — ECAI-2025

In the Proceedings of the 27th European Conference on Artificial Intelligence (to appear).

Christian Bessiere, Clément Carbonnel, Areski Himeur *(alphabetical order)*.

Learning Constraint Networks over Unknown Constraint Languages — IJCAI-2023

In the Proceedings of the Thirty-Second International Joint Conference on Artificial Intelligence.

Christian Bessiere, Clément Carbonnel, Areski Himeur *(alphabetical order)*.

Assessing the Impact of Agents in Weighted Bipolar Argumentation Frameworks SGAI-2021

In the Proceedings of the 41st SGAI International Conference on Artificial Intelligence.

Areski Himeur, Bruno Yun, Pierre Bisquert, Madalina Croitoru *(fixed order)*.

Projects

Bioinformatics Project — ISEM - Montpellier Institute of Evolutionary Sciences

Algorithms for Order Consensus. Sept 2019 - May 2020

Supervised by Sèverine Bérard.

Design of an FPT algorithm for gene adjacency and implementation in C++.

- GitHub Project: https://github.com/Hareski/ConsensusOrdres

Project — Collaboration with the Laboratory of Molecular Endocrinology of Montpellier

Generation of Meals under Nutritional Constraints. Sept 2018 - June 2019

Supervised by Eric Bourreau.

- Development with constraint programming of a customisable generator of meals with a website (Jakarta/Java).
- GitHub Project: https://github.com/Hareski/Medimenu

Teaching

500 hours to diverse audiences (from undergraduate to master's level) in university institutes, engineering schools, and faculties. Taught a wide range of modules including AI, algorithms, programming, and systems.

INSA Lyon - Department of Telecommunications, Services and Uses — Villeurbanne

Fixed-term Lecturer and Researcher - 116h ETD 2025-2026

Course Manager of a part of *AI for Telecommunications* (Design of lectures, labs, and exams).

- Lectures/Practical work/Tutorials on *AI for Telecommunications* (Deep Learning, RL, Transformers) - 4th year Engineer
- Tutorials on *System Architecture* - 3rd year Engineer (TP)
- Tutorials and practical work on *Parallel and Concurrent Programming* - 3rd year Engineer
- Tutorials and practical work on *C Programming* - 3rd year Engineer
- Tutorials on *Algorithmics* - 3rd year Engineer

Faculty of Sciences - Computer Science Department — Montpellier

Non-Tenured Teaching and Research Fellow (ATER) - 192 hours 2024-2025

- Practical work on *Development and DevOps* (JAVA, Git, Selenium, Cucumber, SonarSource, CI, Docker) - 3rd year L3
- Tutorials and practical work on *Functional Programming* (Ocaml) - 1st year L1
- Tutorials and practical work on *Deterministic Automata* - 1st year L1
- Tutorials and practical work on *Object-Oriented Modeling* (Java and UML) - 1st year PEIP (preparatory course)
- Practical work on *Multitasking and Concurrency*: Networking, Threads, and Inter-Process Communication - 3rd year L3
- Tutorials on *Complexity, Computability, Decidability* - 3rd year L3
- Practical work on *Professional Skills (Redaction, Presentation, etc.)* - 3rd year L3

Polytech (Engineering School) — Montpellier

Teaching Mission - 64 hours 2023-2024

Creation of course materials (lectures, tutorials, practical work, assessments) on the basis of previous resources.

- Lectures/Practical work/Tutorials on *Algorithm Complexity Analysis* - 3rd year of engineering school
- Lectures/Practical work/Tutorials on *Reduction and Dynamic Programming* - 5th year of engineering school
- Lectures/Practical work/Tutorials on *Fullstack with Golang* (Web, Algo, Concurrency) - 3rd year of engineering school

Faculty of Sciences - Computer Science Department — Montpellier

Teaching Mission - 64 hours 2022-2023

- Tutorials and practical work on *System Programming in Bash, Python and C* - 1st year PEIP (preparatory course)
- Tutorials and practical work on *Advanced Object-Oriented Modeling* (JAVA, UML, Project Management) - 2nd year L2

IUT - University Institutes of Technology of Montpellier — Montpellier

Teaching Mission - 64 hours 2021-2022

- Tutorials and practical work on *Operating Systems Principles* - 2nd year
- Tutorials and practical work on *Network Architecture and Development* - 1st year

Activities and Volunteering

Volunteering at Conferences

- IJCAI 2023 Volunteer - 32nd International Joint Conference on Artificial Intelligence, *Macao - 2023*
- CP 2021 Volunteer - 27th International Conference on Principles and Practice of Constraint Programming, *Online - 2021*
- ROADEF 2020 Volunteer - 21st French Conference on Operations Research and Decision Support, *Montpellier - 2020*

Summer School Experience

- ESSAI & ACAI - European Summer School on Artificial Intelligence and Advanced Course on Artificial Intelligence, *Ljubljana - 2023*
- SAT/SMT/AR/CP - Satisfiability, Satisfiability Modulo Theories, Automated Reasoning and Constraint Programming, *Haifa - 2022*